

GPC R10

Versatile reactor

DESCRIPTION

- ✓ This unit can be used to produce different chemical compounds by combining various reagents. A structure such as this is indispensable in the chemical and pharmaceutical industry.
- ✓ The unit is equipped with a variable speed agitator and a glass reaction vessel. Above the reaction vessel there is a distilling column in order to separate the various products resulting from the chemical reaction.
- ✓ The unit is designed to work in the batch mode. It can be converted to a continuous operating reactor if it is equipped with a diaphragm pump under atmospheric pressure or reduced pressure.
- ✓ A user manual is included.

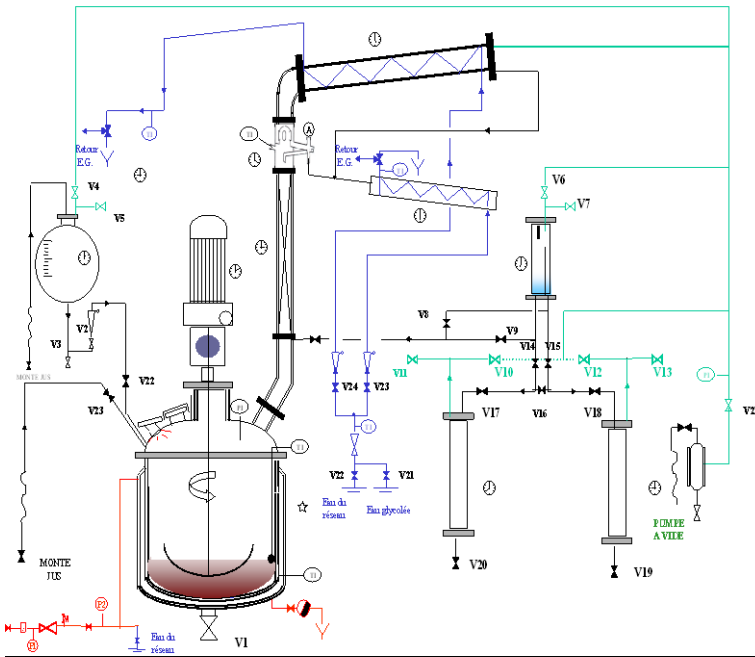


SUGGESTED APPLICATIONS

- Study of the reaction kinetics
- Study of the reaction medium : physical and chemical parameters
- Thermodynamic studies
- Matter balance
- Industrial applications

GPC R10

COMPONENTS OF THE UNIT



Stainless steel tubular chassis

UTILITIES

Electricity : 220/380 VAC – 50/60 Hz
 Network water
 Drainage

DIMENSIONS

Length : 1 400 mm
 Width : 800 mm
 Height : 2 000 mm
 Weight : 150 kg

Reaction Vessel - 3Ll

- Borosilicate glass
- Double walled
- Cover in borosilicate glass

Liquid supply container- 2 L

- Borosilicate glass

Powder Injector – 1 L

- Borosilicate glass
- Manual agitation and lateral orifice for the blowing of powered by nitrogen

Agitator

- Electric agitation - 0-600 rpm
- Shaft and blade – stainless steel - 316 L

Distilling column DN50

- Height : 500 mm
- Borosilicate glass

Electromagnetic reflux head

- Timer
- Head in borosilicate glass

Condenser

- Monotubular
- Borosilicate glass and stainless steel
- Exchanger area : 0.3 m²

Exchanger for distillate (borosilicate glass)

Receiving vessel (borosilicate glass)

Thermoregulator with thermic oil

- Power 3 kw
- Autonomous – on wheels

MEASUREMENTS

T1 : Temperature in the reactor

T2 : Vapor temperature on top of the column

PI : Measured pressure by the pressure switch